

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2005/000911

A. CLASSIFICATION OF SUBJECT MATTER
Int.Cl⁷ B60C23/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
Int.Cl⁷ B60C23/00-23/08, G01L17/00, F16B2/08

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Jitsuyo Shinan Koho 1922-1996 Jitsuyo Shinan Toroku Koho 1996-2005
Kokai Jitsuyo Shinan Koho 1971-2005 Toroku Jitsuyo Shinan Koho 1994-2005

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|--|-----------------------|
| P, A | JP 2004-106768 A (Bridgestone Corp.), 08 April, 2004 (08.04.04), Full text; Figs. 1 to 9 (Family: none) | 1-6 |
| Y A | Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 164091/1982 (Laid-open No. 67307/1984) (Topy Industries Ltd.), 07 May, 1984 (07.05.84), Full text; Figs. 1 to 3 (Family: none) | 1-2 3-6 |

Further documents are listed in the continuation of Box C.

See patent family annex.

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| * Special categories of cited documents: | |
| "A" | document defining the general state of the art which is not considered to be of particular relevance |
| "E" | earlier application or patent but published on or after the international filing date |
| "L" | document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) |
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| "Y" | document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art |
| "&" | document member of the same patent family |

Date of the actual completion of the international search
06 May, 2005 (06.05.05)

Date of mailing of the international search report
24 May, 2005 (24.05.05)

Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

Faxsimile No.

Telephone No.

INTERNATIONAL SEARCH REPORT

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PCT/JP2005/000911

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|---|-----------------------|
| Y A | JP 9-136517 A (The Yokohama Rubber Co., Ltd.), 27 May, 1997 (27.05.97), Full text; Figs. 13 to 16 (Family: none) | 1-2 3-6 |
| Y A | JP 11-342712 A (Pacific Industrial Co., Ltd.), 14 December, 1999 (14.12.99), Full text; Figs. 1 to 5 (Family: none) | 1-2 3-6 |
| Y A | JP 10-315720 A (The Yokohama Rubber Co., Ltd.), 02 December, 1998 (02.12.98), Full text; Figs. 1 to 9 (Family: none) | 1-2 3-6 |
| Y | JP 55-82890 A (Rasmussen GMBH.), 21 June, 1980 (21.06.80), Full text; Figs. 1 to 6 & US 4507956 A | 1-2 |
| A | US 2386629 A (Edwin W. North), 09 October, 1945 (09.10.45), Full text; Figs. 1 to 7 (Family: none) | 1-6 |
| A | JP 31-677 Y1 (Seizaburo FUJIMOTO), 20 January, 1956 (20.01.56), Full text; Figs. 1 to 5 (Family: none) | 1-6 |
| Y | JP 2002-13682 A (Rasmussen GMBH.), 18 January, 2002 (18.01.02), Full text; Figs. 1 to 19 & US 2002/7536 A1 | 1-2 |
| A | JP 55-47006 A (Etablissements Caillau), 02 April, 1980 (02.04.80), Full text; Figs. 1 to 9 & US 4221030 A1 | 1-6 |